



NACECARE[™]
SOLUTIONS
Clarity in Cleaning

USING AND MAINTENANCE MANUAL FOR THE MACHINE



RM1800H

READ CAREFULLY THIS MANUAL BEFORE USING THE MACHINE

Version 07/11

General

GraceHP is a professional high performance restrom cleaning machine. A special patented system allows to use an automatic chemical dilution without the need for mixing chemicals.



Safety instructions (read carefully)

Every electrical device must be used for its particular function only, respecting the manufacturer's instructions. Failure to adhere to the instructions could result in serious person injury, electric shock, fire or explosion.

The nowadays machines are normally produced according to the accident prevention regulations and are often homologated by qualified institutes for the safety, but nobody and nothing can save irresponsible users from danger.

Please, read carefully the following points and be sure to understand everything before using the machines. The following information signals potentially dangerous conditions to the operator or equipment.



WARNING: Fire or Explosion Hazard.

- Do not spray water near electrical outlets.
- Do not use the machine to spray or to suck dust, corrosive liquids (acids or bases) and explosive or inflammable liquids.
- Do not use the machine in an explosive atmosphere. This machine is not equipped with an explosion proof motor. The electric motor will spark when powered on which could cause a flash fire or explosion if machine is used in an area where flammable vapors/liquids or combustible dusts are present.
- Never use flammable liquids or operate machine in or near flammable liquids, vapors or combustible dusts.



WARNING: Electrical Hazard.

- Before putting the machine's plug in the current socket, check that the voltage available is the same indicated on the label of the machines.
- Be sure that the electrical system is well earthed and that it has a safety differential switch.
- Verify that the cable plug is complying with the outlet.
- Do not modify plug.
- Do not use adapters or multiple sockets, without knowing the electrical input of each user.
- If any electrical extension is used, check that it corresponds to the absorbed power of the machine and that the connection of the plug with the socket is complying and sealed.
- Take care of the electrical cable. It must be integral and protected from water, tears and chemical agents. Do not repair the cable in case of tears, but replace it with a new one. The cable must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

- Do not pull the cable to drag the machine or to pull the plug out.
- Pull the plug out only when the machine is switched off.
- Do not handle the plug with wet hands.
- Unplug cable before servicing machine.



FOR SAFETY:

- Do not let the machine being used by children and people unable to understand the danger connected with the use of electrical power.
- Do not bring the end of the suction hose or one of the accessories near your face or others', particularly near ears and eyes: the sucked air could seriously damage them.
- If the machine is used as a wet vacuum cleaner, you must check the level of water in the recovery tank, in order to prevent water from being sucked by the vacuum motor.
- If the chemical you are using produces foam, or if you are cleaning carpet previously treated with shampoo, you must put some antifoaming liquid into the recovery tank. In the long run, the foam sucked by the motor can damage it.
- In case of abnormal working (very noisy motor, not running pump, extreme temperature rise, or other suspicious signals) switch off the machine and pull the plug out.
- If foam or liquid escapes from the machine, switch machine off immediately.
- After using, store the machine, well cleaned, in a cool and dry place.

The manufacturer cannot be held responsible for any damage/injury caused to persons or property, because of the incorrect use of the machine due to procedures being used which are not specified in this instruction manual.

Attention: all the electrical repairs must be performed by qualified personal only!



PROTECT THE ENVIRONMENT

Please dispose of packaging materials and old machine components in a safe environmentally way according to your local waster disposal regulations.



Always remember to recycle.

Preparation for work

To prepare the machine for work, do the following operations:

1. Connect the spray gun to the spray hose and the spray hose to the quick disconnect coupling located on the rear of the machine.
2. Connect the vacuum hose to the rear of the recovery tank.
3. Connect the floor wand to the solution and vacuum hose.
4. Put some fresh water into the solution tank. Put only water, without chemical. Use clean buckets only.
5. Insert the chemical bottle in the holder and connect the cap. Check that the chemical bottle is well connected to the chemical cap.
6. Connect the plug of the machine to a proper electrical socket, provided of grounding. Read carefully the instructions in the safety regulation paragraph.

STEP A – PRE-SPRAYING CHEMICAL

1. Ensure the chemical bottle is connected and has ample chemical
2. Turn the selector knob on the rear panel to the 1 droplet position
3. Ensure the spray gun is in the "High" position by pulling back on the nozzle
4. Turn the pump on and allow 10 seconds for the chemical to prime through the hose
5. Spray the area to be cleaned ensuring good coverage over the entire surface
6. Allow the chemical to dwell on the wall for at least 2-3 minutes
7. For very soiled spots, use the included deck brush to agitate and scrub the surface

RINSING THE SURFACE

1. Ensure the defoamer bottle is in place and has an ample amount of defoamer
2. Turn the selector knob on the rear panel to the 2 droplet position
3. Ensure the spray gun is in the "High" position by pulling back on the nozzle
4. Turn the pump on and allow 10 seconds for the chemical to purge from the hose
5. Rinse the area thoroughly ensuring all chemical is removed from the surface
6. Remove water from any mirrors with the included squeegee
7. If there is no floor drain present, you may use either the wand for the triangular floor tool to pick up the water from the floor
8. If a floor drain is present, use the floor wand to pick up any residual water

PRESSURE ADJUSTMENT

This machine has been preset to an optimal pressure. It is not recommended to attempt to increase or reduce the pressure of the machine. The factory setting for the pressure adjustment is as follows:

1. Turn the pressure adjustment knob all the way clockwise
2. Turn the pressure adjustment knob 3 complete turns counter clockwise

NOTE: After switching OFF the pump, it is necessary to discharge the pressure in the circuit, by pressing the spraying lever on the accessory. If this operation is not performed, the pump might have difficulty and not be able to start when its switch is pressed again in the ON position.

NOTE: The capacity of the recovery tank is enough to vacuum all the liquid previously sprayed with a full tank of the clean water tank. After vacuuming the residual liquid, do not re-fill the clean water tank before draining the recovery tank. Furthermore, avoid to vacuum liquid not sprayed by the same machine, but for example by other sources. In this case in fact the quantity of water vacuumed into the recovery tank could be excessive for its capacity. If this should happen, check often the level of the recovery tank.

Maintenance

Observe the following advice to obtain a perfect working and a long life of your machine:

1. After use, ensure the recovery tank is drained and cleaned with clean water only
2. Leave the recovery dome off when storing the machine to prevent moisture damage to the vacuum motor
3. Check the clean water filter in the solution tank on a weekly basis to ensure there is no damage to the mesh filter

If the machine will be stored for a period longer than 1 week, please follow this procedure:

1. Plug the machine in to the wall
2. Connect the spray hose and gun to the machine
3. Disconnect the chemical cap from the chemical jug
4. Get a small bucket of clean water
5. Puth the chemical cap into the bucket of clean water
6. Turn the selector knob to the 1 droplet position
7. Turn the pump on and spray the gun
8. Continue this for 10 seconds

This procedure clears out any residual chemical left in the system. If not cleaned, the residual chemical will harden and potentially plug the lines in the system.